

**Remover, Polyurethane/Epoxy Paint
Alkaline, Hot-Tank Type**

1. SCOPE:

1.1 Form:

This specification covers two types of paint remover in the form of a liquid.

1.2 Application:

This product has been used typically as a stripper for polyurethane/epoxy painted aircraft wheels and landing gear, but usage is not limited to such applications.

1.4 Safety - Hazardous Materials:

While the materials, methods, applications, and processes described or referenced in this specification may involve the use of hazardous materials, this specification does not address the hazards which may be involved in such use. It is the sole responsibility of the user to ensure familiarity with the safe and proper use of any hazardous materials and to take necessary precautionary measures to ensure the health and safety of all personnel involved.

1.3 Classification:

Paint remover covered by this specification is classified as follows:

Type 1, Class 1 - Phenolic, Sealed
Type 1, Class 2 - Phenolic, Unsealed

Type 2, Class 1 - Non-Phenolic, Sealed
Type 2, Class 2 - Non-Phenolic, Unsealed

1.3.1 If a specific type and class is not specified, either type and class may be supplied.

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2. APPLICABLE DOCUMENTS:

The following publications form a part of this specification to the extent specified herein. The latest issue of SAE publications shall apply. The applicable issue of other publications shall be the issue in effect on the date of the purchase order.

2.1 SAE Publications:

Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

- AMS 2471 Anodic Treatment of Aluminum Alloys, Sulfuric Acid Process, Undyed Coating
- AMS 2475 Protective Treatments, Magnesium Alloys
- AMS 2825 Material Safety Data Sheets
- AMS 4037 Aluminum Alloy Sheet and Plate, 4.4Cu - 1.5Mg - 0.60Mn (2024; -T3 Flat Sheet, -T351 Plate), Solution Heat Treated
- AMS 4041 Aluminum Alloy Sheet and Plate, Alclad, 4.4Cu - 1.5Mg - 0.60Mn (Alclad 2024 and 1-1/2% Alclad 2024-T3 Flat Sheet; 1-1/2% Alclad 2024-T351 Plate)
- AMS 4045 Aluminum Alloy Sheet and Plate 5.6Zn - 2.5Mg - 1.6Cu - 0.23Cr, (7075; -T6 Sheet, -T651 Plate), Solution and Precipitation Heat Treated
- AMS 4049 Aluminum Alloy Sheet and Plate, Alclad, 5.6Zn - 2.5Mg - 1.6Cu - 0.23Cr (Alclad 7075; -T6 Sheet, -T651 Plate), Solution and Precipitation Heat Treated
- AMS 4377 Magnesium Alloy Sheet and Plate, 3.0Al - 1.0Zn (AZ31B-H24), Cold Rolled, Partially Annealed
- AMS 4911 Titanium Alloy Sheet, Strip, and Plate, 6Al - 4V, Annealed
- MAM 4911 Titanium Alloy Sheet, Strip, and Plate, 6Al - 4V, Annealed
- AMS 5045 Steel Sheet and Strip, 0.25 Carbon, Maximum, Hard Temper

2.2 ASTM Publications:

Available from ASTM, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

- ASTM D 93 Flash Point by Pensky-Martens Closed Tester
- ASTM D 1568 Sampling and Chemical Analysis of Alkylbenzene Sulfonates
- ASTM F 483 Total Immersion Corrosion Test for Aircraft Maintenance Chemicals
- ASTM F 519 Mechanical Hydrogen Embrittlement Testing of Plating Processes and Aircraft Maintenance Chemicals
- ASTM F 1110 Sandwich Corrosion Test
- ASTM F 1111 Corrosion of Low-Embrittling Cadmium Plate by Aircraft Maintenance Chemicals

2.3 U.S. Government Publications:

Available from DODSSP, Subscription Services Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.

MIL-P-23377 Primer Coating, Epoxy Polyamide, Chemical and Solvent Resistant
 MIL-C-83286 Coating, Polyurethane, for Aircraft Applications
 MIL-STD-2073-1 DOD Materiel, Procedures for Development and Application of Packaging Requirements

3. TECHNICAL REQUIREMENTS:

3.1 Material:

Shall be an alkaline liquid meeting the requirements of 3.2. Type 1 shall contain phenols, cresols, or both. Type 2 shall contain no phenols or cresols. Class 1 remover shall contain a water or oil seal of not more than 15% by volume; Class 2 remover shall not contain a seal.

3.2 Properties:

The product shall conform to the following requirements; tests shall be performed in accordance with specified test methods on the product supplied in concentrated form:

3.2.1 Corrosion of Metal Surfaces:

3.2.1.1 Total Immersion Corrosion: The product shall neither produce evidence of corrosion of the panels nor cause a weight change of any panel greater than that shown in Table 1, determined in accordance with ASTM F 483:

TABLE 1 - Maximum Immersion Corrosion Weight Change

Test Panel	Weight Change mg/cm ² per 24 hours
AMS 4037 Aluminum Alloy	0.3
AMS 4041 Aluminum Alloy	0.3
AMS 4045 Aluminum Alloy	0.3
AMS 4049 Aluminum Alloy	0.3
AMS 4377 Magnesium Alloy, dichromate treated as in AMS 2475	0.2
AMS 4911 or MAM 4911 Titanium Alloy	0.1
AMS 5045 Carbon Steel	0.8